

CLAIMS

1. An electrical connector, comprising:

a housing having at least one terminal receiving cavity extending from a rear wire entry to a front face of said housing, said housing having a front latching member extending forwardly adjacent to said front face, said front latching member having a front leading end;

a terminal positioning assurance member slidably receivable over said front face of said housing, said terminal positioning assurance member including a rearwardly facing, flexible latch member having a rearwardly facing stop surface aligned with said front leading end of said front latch member; and

an electrical terminal member receivable into said terminal receiving cavity, said electrical terminal having a raised projection which is profiled for engaging and biasing outwardly, said rearwardly facing stop surface of said flexible latch member;

said terminal positioning assurance member being held in a pre-assembled position where said rearwardly facing stop surface of said flexible latch member abuts said front leading end of said front latch member, until said terminal is inserted into said cavity to a position where said raised projection deflects said flexible latch member, and said flexible latch passes over, and locks behind said front latching member in a fully assembled position.

2. The electrical connector of claim 1, wherein said front latching member is defined by two spaced apart walls cantilevered from said housing, with a latching bar spanning between said walls, said flexible latching member locking to said latching bar in the fully assembled position.

3. The electrical connector of claim 2, wherein said latching bar includes a ramped surface on a lower edge thereof, which is profiled for engaging said raised projection on said terminal.

4. The electrical connector of claim 2, wherein said flexible latch member is defined by a cantilevered latch arm having a ramped surfacing sloping rearwardly upwardly, the ramping surface being profiled for engaging the latching bar and assisting in the deflection on the cantilevered latch arm over said latching bar.
5. The electrical connector of claim 1, further comprising cooperable latching elements on said housing and terminal positioning assurance member to latch said housing and terminal positioning assurance member in said pre-assembled position.
6. The electrical connector of claim 5, wherein said cooperable latching elements are comprised of a cantilevered latching arm extending from said terminal positioning assurance member, engageable with a shoulder on said housing.
7. The electrical connector of claim 1, wherein said terminal receiving cavity has an open upper face, and said front latching member extending partially over said open upper face, and said rearwardly facing, flexible latch member extending over said open upper face from an opposite position.
8. The electrical connector of claim 1, wherein said electrical terminal includes a forward contact area, a wire crimp section and a strain relief section, said raised projection extending upwardly from said forward contact section.
9. The electrical terminal of claim 8, wherein said electrical terminal includes an inner contact member and an outer protective box-shaped cover, said raised projection extending upwardly from said outer protective box-shaped cover.
10. The electrical connector of claim 8, wherein said raised projection is comprised of a rearwardly extending ramped surface and a top surface.

11. An electrical connector, comprising a housing having at least one terminal receiving cavity extending from a rear wire entry to a front face of said housing, an electrical terminal member receivable into said terminal receiving cavity, and a terminal positioning assurance member slidably receivable over said front face of said housing, said housing having a front latching member extending forwardly adjacent to said front face, said front latching member having a front leading end, said terminal positioning assurance member including a rearwardly facing, flexible latch member having a rearwardly facing stop surface aligned with said front leading end of said front latch member, said terminal positioning assurance member being held in a pre-assembled position where said rearwardly facing stop surface of said flexible latch member abuts said front leading end of said front latch member, until said terminal is inserted into said cavity to a position where said terminal deflects said flexible latch member, and said flexible latch passes over, and locks behind said front latching member in a fully assembled position.

12. The electrical connector of claim 11, wherein said electrical terminal includes a raised projection being profiled for engaging and biasing outwardly, said rearwardly facing stop surface of said flexible latch member.

13. The electrical connector of claim 12, wherein said electrical terminal includes a forward contact area, a wire crimp section and a strain relief section, said raised projection extending upwardly from said forward contact section.

14. The electrical terminal of claim 12, wherein said electrical terminal includes an inner contact member and an outer protective box-shaped cover, said raised projection extending upwardly from said outer protective box-shaped cover.

15. The electrical connector of claim 13, wherein said raised projection is comprised of a rearwardly extending ramped surface and a top surface.

16. The electrical connector of claim 11, wherein said front latching member is defined by two spaced apart walls cantilevered from said housing, with a latching bar spanning between said walls, said flexible latching member locking to said latching bar in the fully assembled position.

17. The electrical connector of claim 15, wherein said flexible latch member is defined by a cantilevered latch arm having a ramped surfacing sloping rearwardly upwardly, the ramping surface being profiled for engaging the latching bar and assisting in the deflection on the cantilevered latch arm over said latching bar.

18. The electrical connector of claim 11, further comprising cooperable latching elements on said housing and terminal positioning assurance member to latch said housing and terminal positioning assurance member in said pre-assembled position.

19. The electrical connector of claim 18, wherein said cooperable latching elements are comprised of a cantilevered latching arm extending from said terminal positioning assurance member, engageable with a shoulder on said housing.

20. The electrical connector of claim 11, wherein said terminal receiving cavity has an open upper face, and said front latching member extending partially over said open upper face, and said rearwardly facing, flexible latch member extending over said open upper face from an opposite position.